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DOCUMENT-IDENTIFIER: JP 03130491 A

TITLE: METHOD FOR MEASURING PAPER FORMATION

## FPAR:

PURPOSE: To precisely measure the formation of paper by changing the diaphragming amounts of a camera to determine a plurality of formation coefficients, calculating membership functions from the curved line of the formation coefficients, determining the optimal diaphragming amount from the gravity center of the curved line and subsequently controlling the camera at the optimal diaphragming amount.

## FPAR:

CONSTITUTION: The beams of light radiated from light sources 10 and 11 through a paper 7 are caught with cameras equipped with automatically diaphragming devices 1 and 2, respectively, and the generated image signals 12 and 13 are inputted into an image-treating and computing device 14 and a display 15. The diaphragming amounts of the camera are changed at a desired intervals and a plurality of formation coefficients are determined from the diaphragming points, respectively, followed by preparing the curved line of the changed formation coefficients. Membership functions are determined from the curved line and synthesized to give a gravity center thereof, from which the optimal diaphragming amount of the camera is determined, and the diaphragming amount of the camera is controlled with control signals 16 and 17 to give the optimal diaphragming amount.

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